04-20-07

FORM PTO-2053-B (REV. 11/2000)
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U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

In re Application of: 09/832,397

Application No.: Noam A. Ziv

Filing Date: April 10, 2001

Title: Method and System For Processing Telephone Calls...

Direct to: Box Reconstruction
United States Patent and Trademark Office
Washington, DC 20231

NOTICE UNDER 37 CFR 1.251 - Pending Application

Statement (check the appropriate box):

☒ The copy submitted with this reply is a complete and accurate copy of applicant's record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and applicant for the above-identified application that is not among applicant's records.

☐ The copy of the paper(s) listed in the notice under 37 CFR 1.251 is/are a complete and accurate copy of applicant's record of such paper(s).

☐ The papers produced by applicant are applicant's complete record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and the applicant for the above-identified application that is not among applicant's records.

☐ Applicant does not possess any record of the correspondence between the Office and the applicant for the above-identified application.

4/17/07
Date

Todd E. Marlette
Signature REG. NO. 35,269

TODD E. MARLETTE
Typed or printed name

A copy of this notice should be returned with the reply.

PTO/SB/21

U.S. Department of Commerce
Patent and Trademark Office
PATENT

AMENDMENT TRANSMITTAL FORM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Customer No.: 23696
Attorney Docket No.: PA190C1
In Re Application of: ZIV et al.
Serial Number: 09/832,397
Filed: 04/10/2001
Examiner: TSULEUN R. LEI
Group Art Unit: 2681

Dear Sir:

Transmitted herewith for filing is a Response to Office Action in the above identified application.
In addition, the following documents are enclosed:

1. ☒ A Petition for Extension of Time: (1) month(s) is hereby requested.
2. ☐ Information Disclosure Statement (IDS):
   a. ☐ PTO-1449
   b. ☐ Copies of IDS Citations (number of citations:)
3. ☐ Change of Attorney's Address in Application.
4. ☐ Other:

CLAIMS	(a) Number Remaining After Amendment	(b) Highest Number Previously Paid For	(c) Extra Claims	Large Entity Fee	Fee Paid
Total*	10	27	0	x $18 =	$0.00
Independent**	3	3	0	x $86 =	$0.00
Multiple Dependent Claim(s): ☐ Yes ☒ No				$290	$0.00
EXTENSION FEES		☒ One Month		$110	$110.00
		☐ Two Months		$420	$
		☐ Three Months		$950	$
INFORMATION DISCLOSURE STATEMENT		☐ After First Office Action		$180	$
		☐ After Final Office Action		$130	$
TERMINAL DISCLAIMER				$110	$
				TOTAL FEE	$110.00

*If the number in column a is less than 20, enter 0 in column c.
**If the number in column a is less than 3, enter 0 in column c.

5. ☐ Fee check in the amount of $_____ is enclosed to pay for any claim and/or extension fees.
6. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of $110.00. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
7. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: 10/31/2003

Signature: Michael D. Gurley, for Reg # 51,751
Thien T. Nguyen, Reg.No. 43,835
(858) 651-6137

QUALCOMM Incorporated
Attn: Patent Department
5775 Morehouse Drive
San Diego, California 92121-1714
Telephone: (858) 651-4125 Facsimile: (858) 658-2502

(TRANSAMD.VER1.7-1/17/2001)

04/20/2007 EAYALEW1 00000051 170026 09832397
01 FC:1251 120.00 DA

STAMP HEREON ACKNOWLEDGES RECEIPT OF THE FOLLOWING IN THE U.S. PATENT AND TRADEMARK OFFICE (Mailed 10/31/2003):

CUSTOMER NO.: 23696
DOCKET NO.: PA190C1 **TTN/CNH**
ENCLOSED ARE: AMENDMENT TRANSMITTAL LETTER (IN DUPLICATE); AMENDMENT IN 9 PAGES; and POSTCARD.

APPLICANT: ZIV et al.
ASSIGNEE: QUALCOMM Incorporated
APPLICATION NO.: 09/832,397
FILED: 04/10/2001
FOR: METHOD AND SYSTEM FOR PROCESSING TELEPHONE CALLS INVOLVING TWO DIGITAL WIRELESS SUBSCRIBER UNITS THAT AVOIDS DOUBLE VOCODING

STAMP HERE SHOWING RECEIPT (THANK YOU):

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,397	04/10/2001	Noam A. Ziv	PA190C1	8544

23696 7590 07/01/2003

Qualcomm Incorporated
Patents Department
5775 Morehouse Drive
San Diego, CA 92121-1714

EXAMINER	
LEI, TSULEUN R	

ART UNIT	PAPER NUMBER
2681	5

DATE MAILED: 07/01/2003

#4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)	
09/832,397	ZIV ET AL.	
Examiner	**Art Unit**	
TSULEUN R. LEI	2681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 April 2001* .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-27* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-27* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____ .

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) *2* .
4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5-11, 13, 15-20, 22, 23 and 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Lev et al. (U.S. Patent 5,608,779).

Regarding Claim 1, Lev teaches a method for processing a telephone call from a wireless subscriber unit that is part of a wireless telephone system, comprising: (a) receiving a request to make said telephone call to a receiving subscriber unit (Fig.5A, 501); (b)devocoding vocoded data from said wireless subscriber unit if said receiving subscriber unit is a wire-based subscriber unit (Fig.5A, 509); and (c) delivering said vocoded data to said receiving subscriber unit if said receiving subscriber unit is a wireless subscriber unit (Fig.5A, 503-508).

Regarding Claim 2, Lev teaches the method as set forth in claim 1 wherein said delivering includes: (c. 1) routing said vocoded data to said receiving subscriber unit within said wireless telephone system if said receiving subscriber unit is part of said wireless telephone

system (Fig.1; Col.3, Lines 24-26); and (c.2) routing said vocoded data through a long distance telecommunications system if said receiving subscriber unit is part of a second wireless telephone system (Fig.2; Col.4, Lines 30-32).

Regarding Claim 3, Lev teaches the method as set forth in claim 2 wherein said routing said vocoded data through a long distance telecommunications system includes: establishing an all-digital link to said second wireless telephone system; and delivering said vocoded data to said second wireless system over said all-digital link (Fig.2, 221-223 and 241 & 242; Col.4, Lines 36-39 & Lines 51-53, the use of transcoders and T1 lines indicating this is an all-digital link).

Regarding Claim 5, Lev teaches the method as set forth in claim 3 wherein said all-digital link passes through a local public switched telephone network and a long distance telecommunications system (Fig.2).

Regarding Claim 6, Lev teaches the method as set forth in claim 1 further comprising: receiving a conference call request from said wireless subscriber unit directed to a third subscriber unit; converting said vocoded data from said wireless subscriber unit into combinable data; generating combined data by combining said combinable data and data from said third subscriber unit (Col.7, Lines 61-66); and generating combined vocoded data by vocoding said combined data and transmitting said combined vocoded data to said receiving subscriber unit (It is inherent in Fig.2, and from Col.7, Line 54 to Col.8, Line7 that after summing the combinable data, a vocoder pair is used for the receiving subscriber.).

Regarding Claim 7, Lev teaches the method as set forth in claim 6 wherein said combinable data is pulse code modulated data (Col.1, Lines 21-23, PCM is a non-compressed digital voice format.).

Regarding Claim 8, Lev teaches the method as set forth in claim 1 further comprising: detecting an incoming call to said wireless subscriber unit from a third subscriber unit; allocating signal processing resources to place data from said third subscriber unit into vocoded format if said third subscriber unit is part of another telephone system; and transmitting said data from said third subscriber unit to said wireless subscriber unit when call waiting is activated (Col.7, Line 66 to Col.8, Line 7).

Regarding Claim 9, see Claims 1 and 2 for Lev's teaching.

Regarding Claim 10, see Claim 3 for Lev's teaching.

Regarding Claim 11, see Claim 5 for Lev's teaching.

Regarding Claim 13, Lev teaches the cellular telephone system as set forth in claim 9 wherein said signal routing circuitry further comprises an interconnect subsystem (Fig.1 & Fig.2).

Regarding Claim 15, see Claim 6 for Lev's teaching.

Regarding Claim 16, see Claim 7 for Lev's teaching.

Regarding Claim 17, see Claim 8 for Lev's teaching.

Regarding Claim 18, see Claim 1 for Lev's teaching.

Regarding Claim 19, see Claim 2 for Lev's teaching.

Regarding Claim 20, see Claim 13 for Lev's teaching.

Regarding Claim 22, see Claim 3 for Lev's teaching.

Regarding Claim 23, see Claim 5 for Lev's teaching.

Regarding Claim 25, see Claim 6 for Lev's teaching.

Regarding Claim 26, see Claim 7 for Lev's teaching.

Regarding Claim 27, see Claim 8 for Lev's teaching.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 4, 12 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lev in view of Roach, Jr. (U.S. Patent 5,845,211).

Regarding Claim 4, Lev teaches the method as set forth in claim 3 of an all-digital link. Lev is silent on the use of ATM network. Roach, however, teaches an ATM network as part of the PSTN network (Roach, Col.12, Lines 15-23). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to combine the teaching of ATM network of Roach to the teaching of Lev, so that the telephone network would contain all transmission modes. Lev as modified by Roach teaches the method as set forth in claim 3 wherein said all-digital link is an ATM network (Roach, Col.12, Lines 15-23).

Regarding Claim 12, Lev teaches the cellular telephone system as set forth in claim 10 wherein said all-digital connection is an asynchronous transfer mode network (Roach, Col.12, Lines 15-23).

Regarding Claim 24, Lev teaches the wireless telephone system as set forth in claim 23 wherein said all-digital connection is an asynchronous transfer mode network (Roach, Col.12, Lines 15-23).

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington,* 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 9, 14 and 18-21 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 3 of U.S. Patent No. 6,292,662. Although the conflicting claims are not identical, they are not patentably distinct from each other because

they all claim a method/system for processing a telephone call in a wireless telephone system interfacing with a wire-based telephone system, having vocoded voice data, to devocode vocoded data if the receiving subscriber unit is a wire-based telephone unit, and to bypass the devocoding process if the receiving subscriber unit is part of the wireless telephone system.

Regarding Claim 9, Ziv teaches a cellular telephone system for processing a telephone call from a requesting subscriber unit that is part of a wireless telephone system directed to a receiving subscriber unit comprising: signal routing circuitry; signal processing circuitry for processing vocoded data; and a call control processor, coupled to said signal processing circuitry and said signal routing circuitry, for configuring said signal routing circuitry to bypass said signal processing circuitry if said receiving subscriber unit is part of said cellular telephone system, and for configuring said signal processing circuitry to devocode said vocoded data if said receiving subscriber unit is wire-based (Ziv, Claim 3, Col.10, Line 48-63).

Regarding Claim 14, Ziv teaches the cellular telephone system as set forth in claim 9 wherein said call control processor configures said signal processing circuitry to convert said vocoded data into tones if said receiving subscriber unit is part of a second wireless telephone system, and configures said signal routing circuitry to deliver said tones to a long distance telecommunications carrier (Ziv, Claim 3, Col.10, Line 63 to Col.11, Line 6).

Regarding Claim 18, Ziv teaches a wireless telephone system for processing a telephone call from a requesting subscriber unit that is part of a wireless telephone system directed to a

receiving subscriber unit comprising: means for routing digital information; means for processing vocoded data; and means for configuring said means for routing to bypass said means for processing if said receiving subscriber unit is part of said wireless telephone system, and for configuring said means for processing to devocode said vocoded data if said receiving subscriber unit is wire based, said means for configuring being coupled to said means for processing and said means for routing (Ziv, Claim 3, Col.10, Line 48-63).

Regarding Claim 19, Ziv teaches the wireless telephone system of claims 18 wherein said means for configuring configures said means for routing to route said vocoded data to said receiving subscriber unit within said wireless telephone system if said receiving subscriber unit is part of said wireless subscriber system, and to route said vocoded data through a long distance telecommunication service if said receiving subscriber unit is part of a second wireless telephone system (Ziv, Claim 3, Col.10, Line 48 to Col.11, Line 6).

Regarding Claim 20, Ziv teaches the wireless telephone system as set forth in claim 19 wherein said means for routing comprises an interconnect subsystem (Ziv, Claim 3, Col.10, Line 48 to Col.11, Line 6).

Regarding Claim 21, Ziv teaches the wireless telephone system as set forth in claim 20 wherein said means for configuring configures said means for processing to convert said vocoded data into tones, and configures said means for routing to deliver said signal to a long

distance telecommunications carrier, if said receiving subscriber unit is part of a second wireless telephone system (Ziv, Claim 3, Col.10, Line 63 to Col.11, Line 6).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weaver, Jr. et al. (U.S. Patent 5,956,673)

Han et al. (U.S. Patent 5,793,810)

Henderson et al (U.S. Patent 5,854,786)

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TSULEUN R. LEI whose telephone number is 703-305-4828. The examiner can normally be reached on 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D Bost can be reached on 703-305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5403 for regular communications and 703-308-5403 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

TRL

TRL
June 24, 2003

Notice of References Cited	Application/Control No. 09/832,397	Applicant(s)/Patent Under Reexamination ZIV ET AL.	
	Examiner TSULEUN R. LEI	Art Unit 2681	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,608,779	03-1997	Lev et al.	455/436
	B	US-5,845,211	12-1998	Roach, Jr., Peter O.	455/436
	C	US-6,292,662	09-2001	Ziv et al.	455/445
	D	US-5,956,673	09-1999	Weaver et al.	704/221
	E	US-5,793,810	08-1998	Han et al.	375/242
	F	US-5,854,786	12-1998	Henderson et al.	370/335
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

FORM PTO-1449 (REV. 7-80) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use several sheets if necessary)

DATE MAILED: 04/10/2001

ATTY. DOCKET NO.	APPLICATION NO.
PA190C1	UNKNOWN
APPLICANT	
ZIV, ET AL.	
FILING DATE	GROUP
HEREWITH	UNKNOWN

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO-PRIATE
TL	A1	4,782,326	11/1988	Bush			
TL	A2	5,317,567	05/1994	Champion			
TL	A3	5,577,029	11/19/1996	Lu, et al.			
TL	A4	5,526,400	06/11/1996	Nguyen			
TL	A5	5,509,004	04/16/1996	Bishop, Jr. et al.			
TL	A6	5,504,804	04/02/1996	Widmark, et al.			
TL	A7	5,278,892	01/11/1994	Bolliger, et al.			
TL	A8	5,173,933	12/22/1992	Jabs, et al.			
TL	A9	4,187,398	02/05/1980	Stark			
	A10						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
TL	B1	0664658	07/26/1995	EPO	AT&T CORP.		
TL	B2	0605311	07/06/1994	EPO	Alcatel Radiotelephone		
TL	B3	9515665	06/08/1995	PCT	Motorola Inc.		
TL	B4	9524789	09/14/1995	PCT	NOKIA		
TL	B5	9642176	12/27/1996	PCT	QUALCOMM, Inc.		
TL	B6	9300778	01/1993	PCT	GPT Limited		

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Page, Etc.*)

TL	C1		"Intelligibility Testing of the Continuous Variable Slope Delta (CVSD) Coder-Decoder (CODEC)," by Elis D. Hanson; Research and Development Technical Report ECOM-3393, February 1971.
	C3		

EXAMINER TSullivan DATE CONSIDERED 6/11/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. PA190C1	APPLICATION NO. UNKNOWN
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use several sheets if necessary)*	APPLICANT ZIV, ET AL.	
DATE MAILED: 04/10/2001	FILING DATE HEREWITH	GROUP UNKNOWN

U.S. PATENT DOCUMENTS

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	A1	4,782,326	11/1988	Bush			
	A2	5,317,567	05/1994	Champion			
	A3	5,577,029	11/19/1996	Lu, et al.			
	A4	5,526,400	06/11/1996	Nguyen			
	A5	5,509,004	04/16/1996	Bishop, Jr. et al.			
	A6	5,504,804	04/02/1996	Widmark, et al.			
	A7	5,278,892	01/11/1994	Bolliger, et al.			
	A8	5,173,933	12/22/1992	Jabs, et al.			
	A9	4,187,398	02/05/1980	Stark			
	A10						

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EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	B1	0664658	07/26/1995	EPO	AT&T CORP.		
	B2	0605311	07/06/1994	EPO	Alcatel Radiotelephone		
	B3	9515665	06/08/1995	PCT	Motorola Inc.		
	B4	9524789	09/14/1995	PCT	NOKIA		
	B5	9642176	12/27/1996	PCT	QUALCOMM, Inc.		
	B6	9300778	01/1993	PCT	GPT Limited		

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Page, Etc.)*

	C1		"Intelligibility Testing of the Continuous Variable Slope Delta (CVSD) Coder-Decoder (CODEC)," by Elis D. Hanson; Research and Development Technical Report ECOM-3393, February 1971.
	C3		

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.